-	2	("5978796").PN.	USPAT; US-PGPUB; EP ; JP ; DERWENT; IBM_TDB	2002/11/13 17:14
-	2	("5978796").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/11/14 10:28
-	2	("5978796").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/26 14:38
-	97	(multidimensional or multi-dimensional) same relational same database same (feature$1 or interest$3 or dimension$1 or identifi$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/26 14:43
-	12	(multidimensional or multi-dimensional) same relational same database same (feature$1 or interest$3) same (dimension$1 or identifi$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/26 14:43
-	2	("5727199").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 16:22
-	2	("6289354").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 16:33
-	2	(feature near identif$8) and database same (multi-dimension$3 or multidimension$3) same (generat$3 or creat$3 or build$3) same index$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 16:36
-	8	(feature near identif$8) and database same (multi-dimension$3 or multidimension$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 16:40
-	67	(creat$3 or generat$3 or build$3) same index$3 same database same (multi-dimension$3 or multidimension$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 16:55

-	23	(feature with identif$8) and index$3 same database same (multi-dimension$3 or multidimension$3)	USPAT; US-PGPUB; EP ; JP ; DERWENT; IBM_TDB	2003/09/27 17:03
-	455	(olap or data near mining) and (multi-dimension$3 or multidimension$3 same index$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:04
-	349	((olap or data near mining) and (multi-dimension$3 or multidimension$3 same index$3)) and (feature$1 or intertest$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:05
-	63	(((olap or data near mining) and (multi-dimension$3 or multidimension$3 same index$3)) and (feature$1 or intertest$3)) and (creat$3 or generat$3) same index$3 same database	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:05
-	18	(multi-dimension$3 or multidimension$3) same (drill-down or drill near down) same (featur$2 or interest$1 or paremeter$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:15
-	0	index$3 same (multi-dimension$3 or multidimension$3) same (drill-down or drill near down) same (featur$2 or interest$1 or paremeter$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:16
-	3	index$3 same (multi-dimension$3 or multidimension$3) same (data with (warehouse or mining)) same (featur$2 or interest$1 or paremeter$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:17
-	53	index$3 same (multi-dimension$3 or multidimension$3) and (olap or data with (warehouse or mining)) same (featur$2 or interest$1 or paremeter$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:24
-	22	6,134,541.uref.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:30
-	24	5,727,199.uref.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:30
-	1	"5819258".PN.	USPAT	2003/09/27 17:34

-	1	"5832182".PN.	USPAT	2003/09/27 17:35
-	1	"5832475".PN.	USPAT	2003/09/27 17:36
-	1	"5884305".PN.	USPAT	2003/09/27 17:36
-	1	"5890150".PN.	USPAT	2003/09/27 17:36
-	85	(data near cube$1 or hyper-cube$1 or hypercube$1) and index$3 same (multi-dimension$3 or multidimension$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:57
-	1	"5226109".PN.	USPAT	2003/09/27 17:56
-	1	"5495539".PN.	USPAT	2003/09/27 17:56
-	1	"5497486".PN.	USPAT	2003/09/27 17:56
-	1	"5787422".PN.	USPAT	2003/09/27 17:56
-	1	"5878424".PN.	USPAT	2003/09/27 17:56
-	1	"5870768".PN.	USPAT	2003/09/27 17:56
-	26	6,003,036.uref.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/27 17:57

09/747,515

04340839 Supplier Number: 46365980 (THIS IS THE FULLTEXT)

Information Builders erects 'Fusion'

PC Week, p008
May 6, 1996
ISSN: 0740-1604
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Tabloid; General Trade
Word Count: 308

TEXT:

Information Builders Inc. will jump into the multidimensional OLAP market this month with a new DBMS.

The product, code-named Fusion, is for data warehousing environments and applications that require rapid processing of complex online analytical processing queries. Expected to ship this year, it will likely be announced at Information Builders' International Users Meeting and Educational Conference, which begins May 19 in Orlando, Fla., according to sources familiar with the company's plans.

The multidimensional architecture, which can accommodate up to 32 terabytes of data, promises fast performance because it separates data storage from indexing information, said sources.

"It's supposed to be lightning fast. We're looking to install it as soon as it's available," said a user for a California electronics firm who requested anonymity.

Initially available on Unix platforms, Fusion organizes data as dimensions in a so-called spider schema and constructs a single index of those dimensions, dubbed the MD Tree Index, said sources.

The index keeps tabs on the dimensions and can selectively process only needed dimensions, according to Information Builders documentation obtained from users.

Part of the Fusion architecture comprises "smart partitioning," which archives new batches of changes in source data, with each partition carrying its own "master" schema of unique physical locations and logical descriptions, sources said.

In addition, a comprehensive metadata master file stores field information, acceptance conditions for valid data, join information, partition locations and meaning, index contents, "virtual fields" derived from rules on real fields and security information.

Sources were not aware of what front-end support would be available for Fusion. In the first quarter, Information Builders shipped Focus Six, a Visual Business Information Suite for multitier reporting and analysis systems, as well as its other mainstay, Enterprise Data Access Version 4, a multifunction middleware application for heterogeneous data processing.

Officials for Information Builders, in New York, could not be reached for comment.

PUBLISHER NAME: Ziff-Davis Publishing Company
COMPANY NAMES: *Information Builders Inc.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372420 (Database Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

04365453 Supplier Number: 46402514 (THIS IS THE FULLTEXT)

INFORMATION BUILDERS READY WITH FUSION MULTI-DIMENSIONAL DATABASE FOR WAREHOUSING, EXECUTIVE INFORMATION SYSTEMS

Computergram International, n2917, pN/A
May 21, 1996
ISSN: 0268-716X
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 587

09/747,515

TEXT:

New York City's Information Builders Inc has been removing the wraps from its Focus Fusion multi-dimensional database, which it believes will boost its presence significantly in the data warehousing, decision support and Executive Information Systems markets. Focus Fusion is the multi-dimensional on-line analytical processing element of the company's data warehousing programme. It incorporates Information Builders' own OverLAP technology, which enables Fusion to serve as a ~~multi-dimensional~~ database front end for relational and legacy databases. It is different from other multi-dimensional databases, says Dave Sandel, vice-president and general manager of the company's Open Systems Division, because of its highly scalable architecture, so-called intelligent partitioning, and other performance enhancements. Fusion sits under the company's EDA/SQL middleware offering, supporting any SQL database and any Object DataBase Connectivity client. Sandel claimed that most multi-dimensional databases only scale up to about 5Gb and other analytical processing servers have problems getting past 20Gb. Sandel says Fusion will be tested to 100Gb by the time of the full roll-out in mid-summer, and will be able to handle up to 1Tb of data. Information Builders' intelligent partitioning means that data can be stored horizontally or vertically across multiple hard drives on the fly. The separation of the index from the data makes for easier incremental update of data and faster data storage, as internal indexes cause systems to drag, says Sandel. The data does not have to be stored in the order of the dimensions. Fusion includes a tool to build indexes. The general advantages of a multi-dimensional database over the relational model apply here.

Two customer sites

A relational database requires SQL queries to retrieve required data from its tables, and has to be coded, usually by data processing department staff. Multi-dimensional databases present a more friendly face to non-technical users, with business rules linking the dimensions. The targets for Information Builders are users of relational databases on mainframes or Unix systems looking to convert to a multi-dimensional client-server model on Unix, and later Windows NT. The company was prepared to talk about two customer sites, but was not giving names. The first is a "major New York insurance brokerage firm" running an Executive Information System application that accesses a Unix server with the company's EDA/SQL middleware. It translated a "commercially available" relational database to Fusion and reports ran between five and 10 times faster, according to Dan Ortolani, director of the Fusion programme. In a shift in its sales strategy, Information Builders is not only pushing Fusion though its traditional direct sales channel, but also through OEM customers who will take Fusion, customise it and sell it into their respective vertical markets. The insurance company is doing this as is the other customer, a health care provider in the Washington DC area which held its data on a mainframe and accessed it through batch reports. Sandel claims the company converted the database to Focus Fusion, implemented it for Unix and converted it to a client-server system under Focus 6 in the space of 24 hours. Naturally, the reports ran faster - about five to seven times, claimed Ortolani. Fusion has been with around 10 customers for a while and will enter beta testing at the end of this month. It will be released for all major Unix systems around July-August time and for Windows NT in the fourth quarter. The Focus Fusion server, administrator's kit and parallel query licences starting at $37,500 for 16 users through $110,200 for up to 128 users, with an additional 64 users for $39,800.